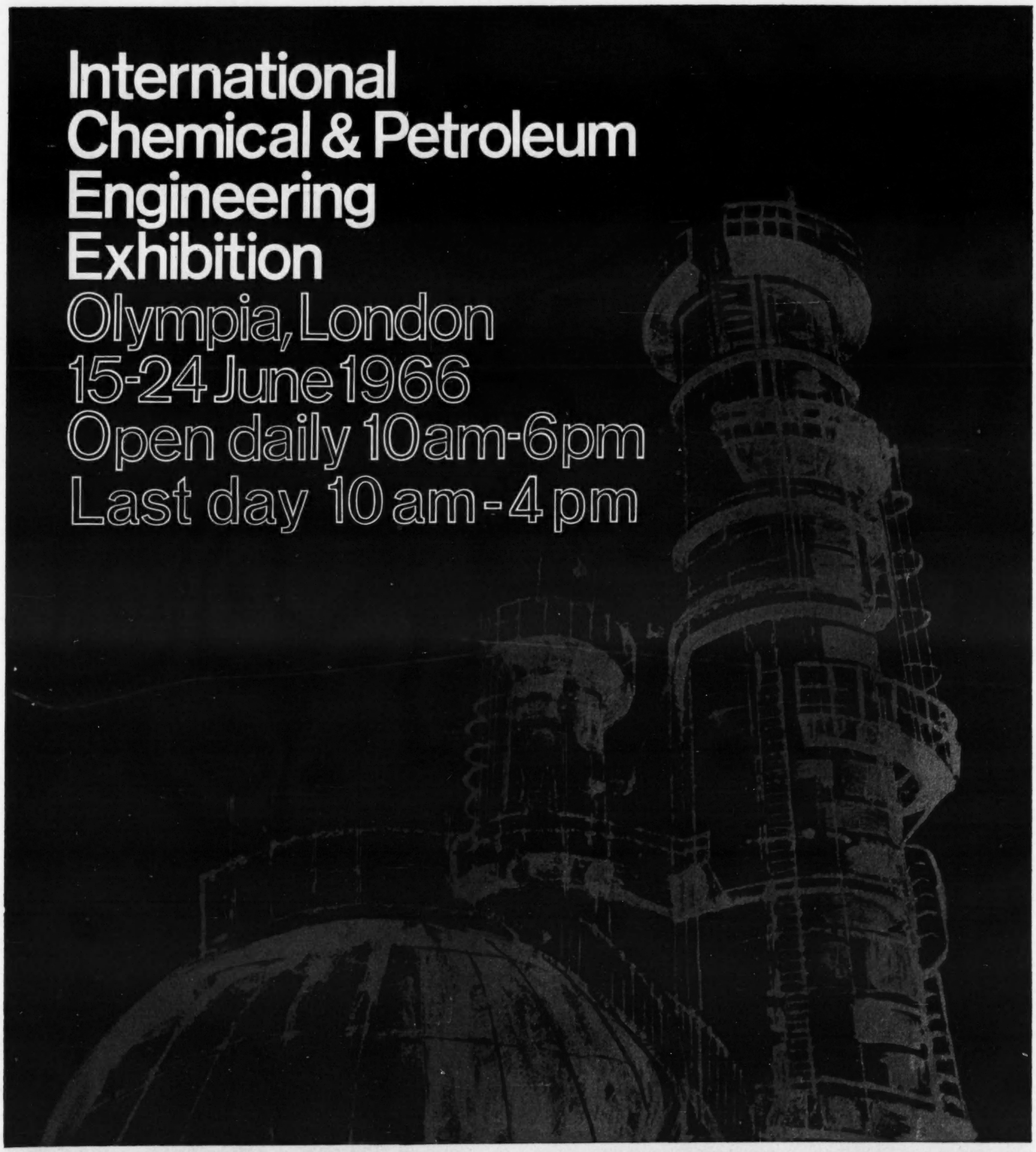
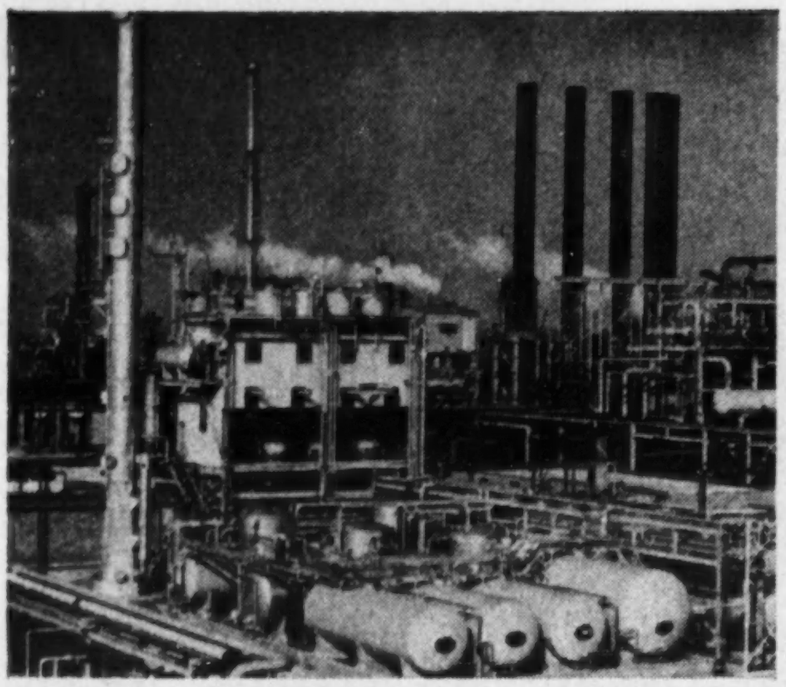
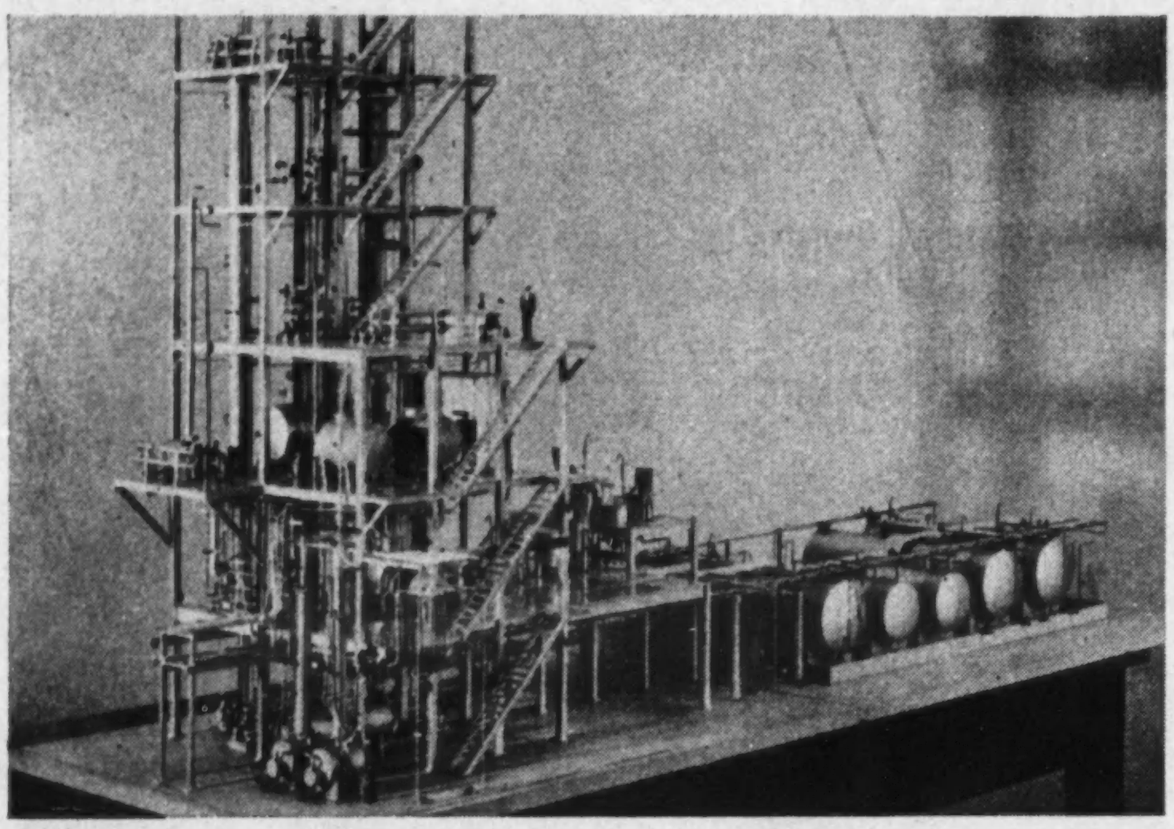
International Chemical & Petroleum Engineering Exhibition

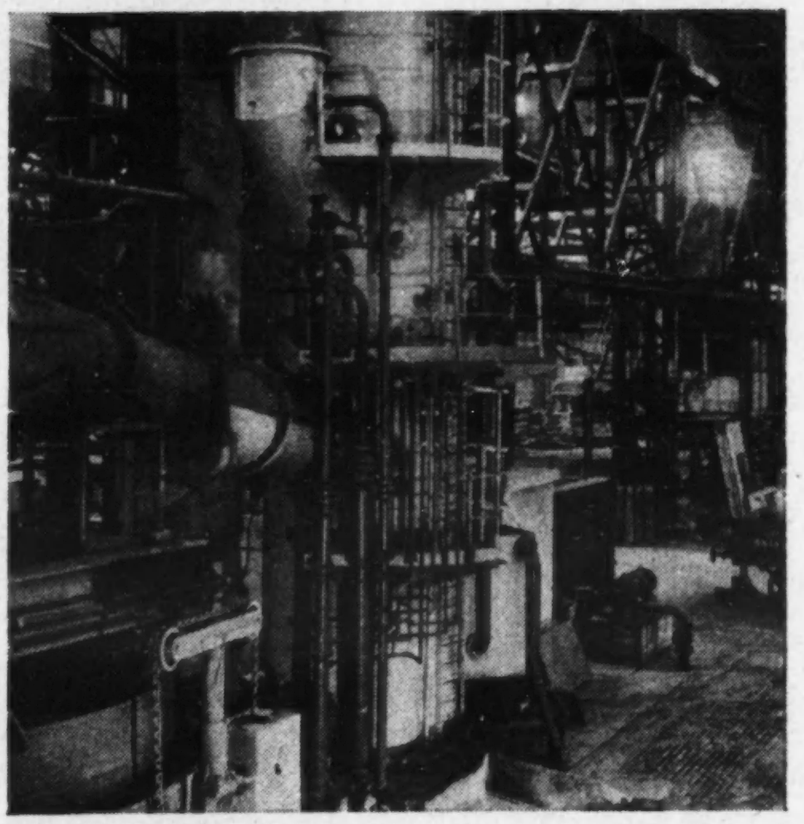
Olympia, London
15-24 June 1966
Open daily 10am-6pm
Last day 10 am - 4 pm



Exhibition Guide







Top left, *Plant for the extraction and purification of benzene installed for Shell Chemical Company at Carrington.* Top right. *Heat Exchangers under construction at Thorncliffe, for Bratislava.* Lower left. *Scale model of a benzole refinery.* Lower right. *Meridrall Fume Cleaning Plant.*

NEWTON CHAMBERS ENGINEERING LTD

ARE AT THE

International Chemical & Petroleum Engineering Exhibition
Olympia, London
15-24 June 1966

STAND NO. 209 YELLOW HALL

Newton Chambers provide a comprehensive service for the design, engineering, and erection of complete, integrated plants for the Chemical, Petro-chemical, and allied industries. We would be pleased to give you full details of this service, at the Newton Chambers stand, during the Exhibition.

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Chemical and petroleum exhibition goes international

THE FIRST of a new series of British exhibitions, the International Chemical and Petroleum Engineering Exhibition, to be held at Olympia, London, from June 15 to 24, will include exhibits by leading countries in the world of engineering and chemical technology, making it the most representative and comprehensive to date. The phenomenal growth in the petro-chemical industry and the important contribution it makes to the international and national economy have now raised the industry to a position of world importance.

The organizers claim that, occupying some 450,000 square feet, this will be the only exhibition covering chemical, petro-chemical and petroleum refining and oil-well plant in Europe in 1966, and will be the largest of its kind ever held in the United Kingdom.

The exhibition has been supported by an international advertising and promotional campaign aimed at securing sustained and world-wide publicity. It has been given an entirely 'new look'. The presentation of the 1966 exhibition includes a new layout and stand-fitting scheme. This has been devised on a basis which will contribute considerably to the general effectiveness and accessibility, and offer considerable savings for exhibitors.

For the 1966 exhibition companies in the chemical and petroleum processing fields will exhibit and demonstrate their resources and techniques. The organizers are confident that the sale or licensing of such processes at home and overseas must now be regarded as an important and highly relevant part of the industry's activities.

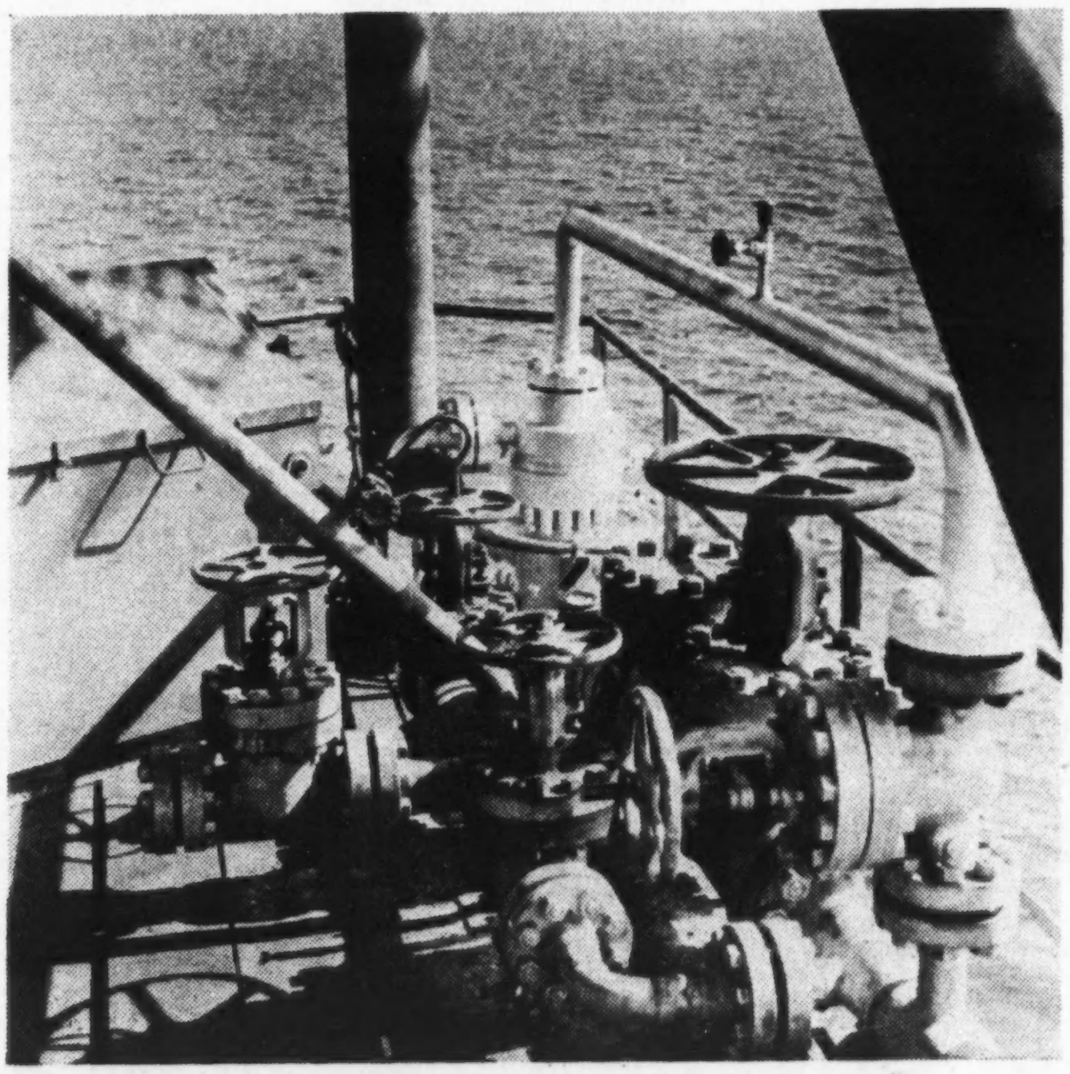
Following the success of the previous exhibition there was considerable expansion in the industry, and it was this success that prompted the presentation of the 1966 exhibition on an international basis.

Concurrently with the International Chemical and Petroleum Engineering Exhibition, the 4th Congress of the European Federation of Chemical Engineering, organized by the Institution of Chemical Engineers, will be held in a conference hall adjoining the Empire Hall at Olympia.

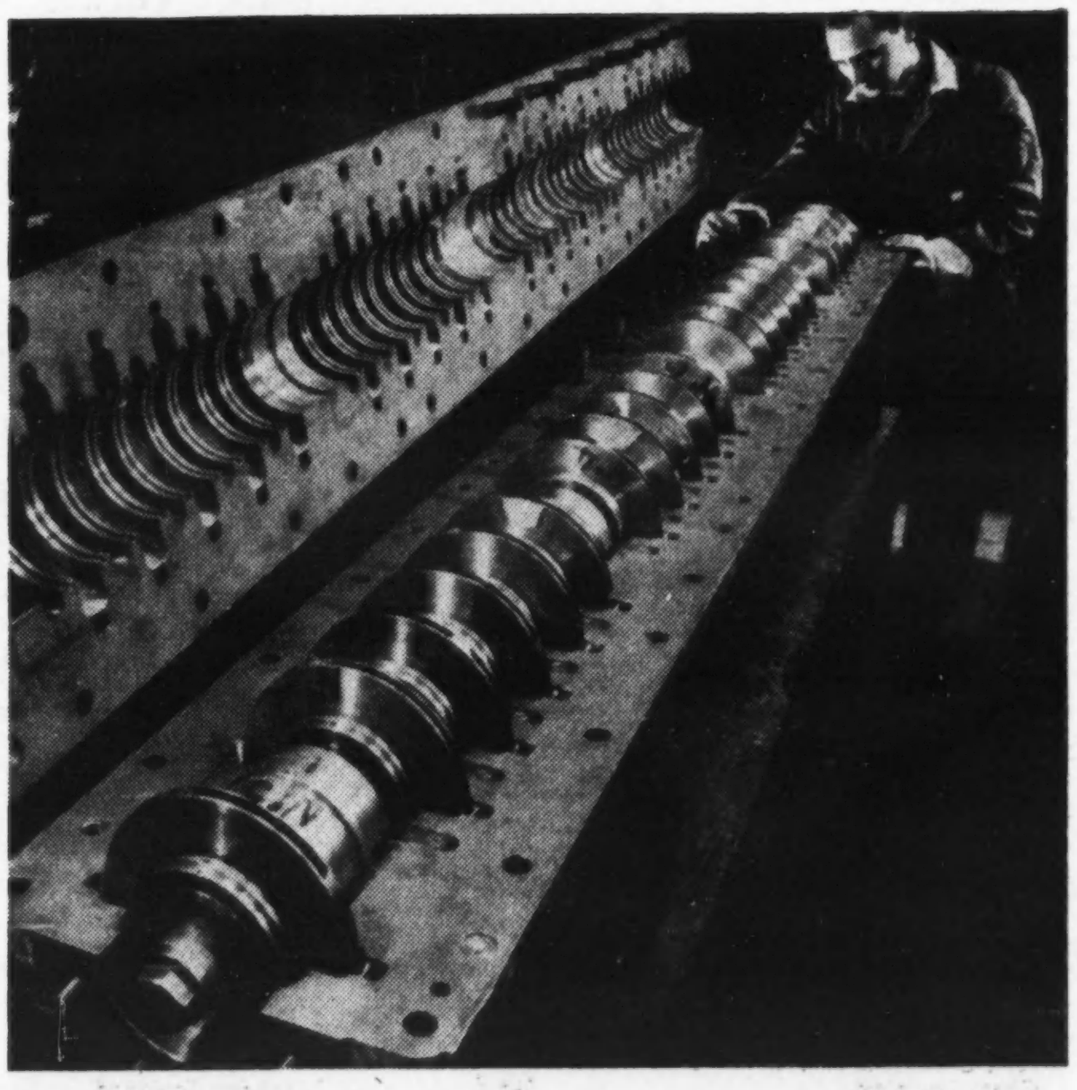
The exhibition will cover the full range of services, plant and ancillary equipment for all sections of the chemical, petro-chemical and petroleum industries. This will include complete process plants; design and contracting services; oil-drilling and production equipment; equipment for unit chemical engineering operations; fabricated plant, including tanks, pressure vessels and heat exchangers; process heaters and boilers; industrial and scientific instruments, control systems, ancillary equipment, including pumps, valves, pipes, hoses, loading booms and fittings; electrical motors and switchgear; welding and cutting equipment; pilot and laboratory scale equipment; specialized tankers and flight refuelling systems.

The exhibition is sponsored by the British Chemical Plant Manufacturers' Association and the Council of British Manufacturers of Petroleum Equipment, and organized by F. W. Bridges & Sons Limited. The importance of the exhibition and its wide appeal are typified by exhibitors from Belgium, Canada, Czechoslovakia, Denmark, East Germany, France, Hungary, Italy, the Netherlands, Nigeria, Sweden, Switzerland, the United States, the USSR, West Germany and the United Kingdom.

A preview of a selection of the exhibits begins on page vi.



J. S. Pumps Ltd. will feature wellhead generators for installation on wellheads out at sea. This turbine generator unit for BP Trading Co. is installed at Das Island.



Part of a 22-stage centrifugal pump, which is to form the spectacular centrepiece of the David Brown Gear Industries Limited display stand.

International Chemical & List of

Exhibitor	Stand No.
A	
A.P.V. Company Ltd., The	228 Y
A.P.V.-Paramount Ltd.	228 Y
Accles & Pollock Ltd.	210 Y
Ace Freighters Ltd.	458 B
Acrob Chemical Processors Ltd.	473 B
Addison Tool Co. (Northern) Ltd., The	71 R
Aerox Ltd.	485 B
Société L'Air Liquide	223 Y
Air Products Ltd.	88 R
Air Products & Chemicals Incorporated	88 R
Air Products G.m.b.H.	88 R
Air Products S.A.	88 R
Air Products S.p.A.	88 R
Aiton & Co. Ltd.	324 O
Ajax Equipment	489 B
Alfa-Laval Company Ltd.	314 O
Algemene Kunstzijde Unie N.V. (AKU)	24/28 R
Allied International Co. Ltd.	658 Gy
Allspeeds Ltd.	651 Gy
American Instrument Co. Inc.	602 Gy
Ancorite Ltd.	323 O
Anglo Continental Engineering Co. Ltd.	229 Y
Anglo Continental Fuller's Earth Co. Ltd.	703 Gn
Ansaldo S.P.A.	23 R
Apex Construction Ltd.	19 R
Aqua Chem International Ltd.	11 R
Armstrong Richard, M. Company, The	632 Gy
Ashmore, Benson Pease & Company Ltd.	220 Y
Asme Vessels Ltd.	218 Y
Associated Electrical Industries Ltd.	44 R
Associated Lead Manufacturers Ltd.	42 R
Audco Ltd.	82 R
Autoclave Engineers Inc.	658 Gy
Automatica Ltd.	634 Gy
Avesta Jernverks Aktiebolag	212 Y
Aviation Charter Enterprises Ltd.	458 B
Avon Footwear Ltd.	204 Y
Avon Group of Companies	204 Y
Axiom Wheaton Pty. Ltd.	112 R
B	
BTR Industries Ltd.	234 Y
Baggett Hydraulics	82 R
Baker Perkins Chemical Machinery Ltd.	201 Y
Baker Perkins Chemical Machinery Ltd. Granbull Division	201 Y
Balfour, Henry & Co. Ltd.	49 R
Ballestra, Ing. Mario S.p.A.	304 O
Barr Thompson Ltd.	107 R
Beckman Instruments Ltd.	405 B
Begg, Cousland & Co. Ltd.	414 B
Benn, Ernest Ltd.	604 Gy
Bettles Ltd.	603 Gy
Beverley Chemical Engineering Co. Ltd.	99 R
Birkett, T. M., Billington & Newton Ltd.	113 R
Blackmer Pump Company	23 R
Blairs Ltd.	50 R
Bonney Forge Australia Pty. Ltd.	107 R
Bonney Forge International Ltd.	107 R
Bonney-Omba S.p.A.	107 R
Bornemann, J. H. & Co.	101 R
Boulton, William Ltd.	15 R
Bramah, J. R. & Co. Ltd.	116 R
Bran & Luebbe (Great Britain) Ltd.	333 O
British Brown-Boveri Ltd.	80 R
British Chemical Engineering	420 B
British Chemical Plant Manufacturers Association	56 R
British Engines Ltd.	448 B
British Non-Ferrous Metals Research Association	322 O
British Oxygen Company Ltd., The Chemical Plant Division	30 R
British Welding Research Association	322 O
Broadbent, H. & Son Ltd.	43 R
Broadbent, Thomas & Sons Ltd.	106 R
Bronswerk-Fijenoord International	24/28 R
Brotherhood, Peter Ltd.	641 Gy
Brown, Boveri & Cie A. G. W. Germany	80 R
Brown, Boveri & Cie A. G. Switzerland	80 R
Brown, David Industries Ltd.	213 Y
Brown, Donald (Brownall) Ltd.	417 B
Burgess-Manning Ltd.	452 B
Burnett and Rolfe Ltd.	329 O
Buss A. G.	634 Gy
C	
C.P. Equipment Ltd.	487 B
Caird, Francis Ltd.	107 R
Callow Engineering Ltd.	480 B
Calobri s.r.l.	461 B
Calor Gas (Distributing) Co. Ltd.	79 R
Calor Gas Holding Co. Ltd.	79 R
Calor Transport International N.V.i.o.	79 R
Calor-Witzel International Spedition G.m.b.H.	79 R
Cameron Iron Works Ltd.	52 R
Cannon Industries Ltd.	65 R
Cape Insulation & Asbestos Products Ltd.	645 Gy
Carlson-Ford Sales Ltd.	239 Y
Carter Horseley Engineers Ltd.	320 O
Caslake, J. Ltd.	468 B
Causeway Leeds Linings Ltd.	659 Gy
Centrifix Corporation	23 R
Chemical Age, Proprietors Benn Brothers Ltd.	604 Gy
Chemical & Process Engineering	627 Gy
Chemical Engineering Index	499 B
Chemical Plant & Ancillaries Ltd.	17 R
chemieanlagen-export-import G.m.b.H.	226 Y
N.V. Chemische Fabriek Servo	3 R
Chemokomplex	104 R
Chemtec (Beith) N.V.	632 Gy
Chemtec N.V.	632 Gy
Chesterfield Tube Co. Ltd.	210 Y
Chicago Bridge & Iron Company	105 R
Chicago Bridge (Deutschland) G.m.b.H.	105 R
Chicago Bridge Italianna Montaggi S.p.A.	105 R
Chicago Bridge Ltd.	105 R
Chicago Bridge (Nederland) N.V.	105 R
Chiksan International	86 R
Société Chimique de la Grande Paroisse	223 Y
Clark Bros. Co. Division of Dresser (Great Britain) Ltd.	328 O
Clearaway Ltd.	735 Gn
Clyde Alloy Steel Co. Ltd.	69 R
Cobham, Alan Engineering Ltd.	2 R
Coldstream (Engineering) Ltd.	241 Y
Collins, Brian D. (Distributors) Ltd.	247 Y
Colvilles Ltd.	69 R
Compagnia Tecnica Industrie Petroli S.p.A.	103 R
Compoflex Company Ltd.	642 Gy
"Composite Catalog of Oil Field Equipment and Services"	120 R
Conder International Ltd.	440 B
Conder (Midlands) Ltd.	440 B
Conder (Northern) Ltd.	440 B
Conder (Scotland) Ltd.	440 B
Conder (Southern) Ltd.	440 B
Continental Engineering, Ingenieursbureau voor de Procesindustrie N.V.	507 B
Contraves AG	657 Gy
Controlled Heat & Air Ltd.	332 O
Coppus Engineering Corporation	23 R
Corblin	602 Gy
Cornwell Products Ltd.	70 R
Council of British Manufacturers of Petroleum Equipment	53 R
Courtaulds Engineering Ltd.	91 R
Crane Packing France	406 B
Crane Packing G.m.b.H.	406 B
Crane Packing Ltd.	406 B
Crane Ltd.	315 O
D	
Dalglish, John & Sons Ltd.	109 R
Dalkins (Hartlepools) Ltd.	447 B
Daniels (BBA) Ltd.	433 B
Daniels Parkson Ltd.	433 B
Danto-Rogeat S. A.	229 Y
Davey, Paxman & Co. Ltd.	300 O
Davis, John & Son (Derby) Ltd.	429 B
Davy-Ashmore Ltd.	220 Y
Day, J. H. Company, The	102 R
Deloro Stellite Ltd.	203 Y
Demacom Industrial Equipment Ltd.	495 B
Demag AG.	495 B
Deutsche Lightnin G.m.b.H.	77 R
Dewrance & Co. Ltd.	43 R
Dewrance Controls Ltd.	43 R
Dewrance Metals Ltd.	43 R
Dewrance-Triangle Ltd.	43 R
Dick's Asbestos & Insulating Co. Ltd.	221 Y
"Diesel and Gas Engine Catalog"	488 B
Dikkers, G. & Co. N.V.	24/28 R
Dollery & Palmer Ltd.	313 O
Dorr-Oliver Co. Ltd.	94 R
Dorr-Oliver G.m.b.H.	94 R
Dorr-Oliver Inc.	94 R
Dorr-Oliver N.V.	94 R
Dorr-Oliver S.A.	94 R
Dorr-Oliver S.a.R.l.	94 R
Dorr-Oliver S.p.A.	94 R
Douglas-Rownson Ltd.	201 Y
Douglas, William & Sons Engineering Ltd.	201 Y
Doulton Industrial Porcelains Ltd.	485 B
Drakes of Halifax Limited	439 B
Dresser-MMM Ltd.	401 B
Dryden, Thomas & Sons Ltd.	98 R
Duiker Apparatenfabriek N.V.	24/28 R
Dunlop Rubber Company Ltd., Hose Division	96 R
Du Pont Company (United Kingdom) Ltd.	644 Gy
Duriron Company	305 O
Dynatech Corporation	639 Gy
E	
Eatad Ltd.	633 Gy
Eco Engineering Company	305 O
Eimco Corporation, The	326 O
Eimco (Great Britain) Ltd.	326 O
Cie Electro Mecanique	80 R
Elga Products Ltd.	111 R
Elliott Company, The	23 R
Ellison, G. G. Ltd.	22 R
Elsevier Publishing Company Limited	435 B
Emco A + A G.m.b.H.	112 R
Emco Brass Manufacturing Co. Ltd.	112 R
Emco Ltd.	112 R
Emco-Wheaton (Japan)	112 R
English Electric Company Ltd., The	16 R
English Electric Company Ltd., The	45 R
English Steel Forge and Engineering Corporation Ltd.	60 R
Entwistle (Oldham) Ltd.	207 Y
Erben, H. Limited	476 B
Ir. Escher's Constructiewerkplaatsen en Machinefabriek N.V.	24/28 R
Maschinenfabrik Esslingen	231 Y
European Chemical News	420 B
"Europe & Oil"	464 B
Express Tools Ltd.	29 R
Extended Surface Tube Co. Ltd.	227 Y
F	
F. I. V. I. di M. e P. Fasani	5 R
F. T. Flexible Tubes Ltd.	22 R
Factory Waste Disposal Ltd.	735 Gn
Fairey-Tress S. A.	308 O
Fairleede Engineering Ltd.	473 B
Fairway Engineering Co. Ltd.	489 B
Farmer, S. W. and Son Ltd.	20 R
Firth-Vickers Stainless Steels Ltd.	63 R
Flexibox AB	100 R
Flexibox G.m.b.H.	100 R
Flexibox Ltd.	100 R
Flexibox NV	100 R
Flexibox Pty.	100 R
Flexibox SA	100 R
Flexibox SpA	100 R
Flight Refuelling Ltd.	1 R
Fluidrive Engineering Co. Ltd.	7 R
Fluor Corporation Ltd., The	93 R
Fluor (England) Ltd.	93 R
Fluor Nederland N.V.	93 R
Foster Wheeler Ltd.	237 Y
Fostoria (Great Britain) Ltd.	61 R
Fox, R. H. & Son (Chemical Engineers) Ltd.	735 Gn
Fox, Samuel & Co. Ltd.	217 Y
Fraser, W. J. & Co. Ltd.	58 R
Frenkel C-D Company Ltd.	726 Gn
G	
GEA Airexchangers Limited	47 R
G. K. N. Bolts & Nuts Ltd.	200 Y
G.P.O. London Telecommunications Region	724 Gn
Gardner, Wm. & Sons (Gloucester) Ltd.	318 O
Gas Council, The	66 R
Gas Council, The	500 B
Gauges-Bourdon (Great Britain) Ltd.	772 Gn
Gayburn Equipment International Ltd.	455 B
General Descaling Co. Ltd.	415 B
Gewerkschaft Siegtal	639 Gy
Gibbons Brothers Ltd., Wellington Chemical Plant Division	230 Y
Girdler-Südchemie Katalysator G.m.b.H.	703 Gn
Girdlestone Pumps Ltd.	404 B
Gloster Saro Ltd., A Hawker Siddeley Company	74 R
Gloster Saro Ltd., A Hawker Siddeley Company	81 R
Gloucester Instruments	82 R
Goodyear Pumps Ltd.	205 Y
Grampian Press Ltd.	627 Gy
Grange, Herbert & Co. Ltd.	233 Y
Messer Griesheim G.m.b.H.	32/33 R
Gulf Publishing Company	120 R
Gutehoffnungshütte Sterkrade Aktiengesellschaft	313 O
H	
Hackbridge and Hewittic Electric Co. Ltd.	421 B
Hainault Engineering Co.	39 R
Hall, Matthew Engineering Limited	27 R
Hamilton Machinery Sales Ltd.	634 Gy
Hamworthy Engineering Ltd.	78 R
Hänchen, Herbert	634 Gy
Harzer Achsenwerke K. G.	229 Y
Hathernware Ltd.	319 O
Hattersley International Valves Ltd.	67 R
Hattersley (Ormskirk) Ltd.	67 R
Hattersley Power Valve Co. Ltd.	67 R
Haut, F. J. G. (Continuation) Ltd.	235 Y
Hayward Tyler & Co. Ltd.	34 R
N.V. Hazemeyer	24/28 R
Head Wrightson Process Engineering Limited	638 Gy
Heathway Machine Sales Ltd.	657 Gy
Heaton, A. & Co. (Valves) Ltd.	67 R
Heemaf N.V.	24/28 R
Herbert, Alfred Ltd.	57 R
Heywood-Temple Industrial Publications Ltd.	420 B
Hilger-I. R. D. Ltd.	510 B
Hilger & Watts Ltd.	510 B
Hindle, Joshua and Sons Ltd.	325 O
Hipkiss Bros. Ltd.	416 B
Hoechst Chemicals Limited	32/33 R
Hoke Incorporated	23 R
Horseley Bridge & Thomas Piggott Ltd.	320 O
Horseley-Piggott (Process Engineers) Ltd.	320 O
Hosokawa Iron Works Ltd.	102 R
Hotfoil Ltd.	72 R
Howell & Co. Ltd.	210 Y
Hughes, F. A. & Company Limited	470 B
Humphreys & Glasgow (Canada) Ltd.	87 R
Humphreys & Glasgow Ltd.	87 R
Humphreys & Glasgow (Overseas) Ltd.	87 R
Huntington Heberlein & Co. Ltd.	85 R
Hydraulics & Pneumatics Ltd.	475 B
"Hydrocarbon Processing Catalog"	120 R
"Hydrocarbon Processing and Petroleum Refiner"	120 R
Hydronyl Ltd.	48 R
Hygrotherm Engineering Ltd.	302 O
I	
I.H.C. Holland	24/28 R
Ideco Division of Dresser (Great Britain) Ltd.	328 O
Industrial Manpower Ltd.	432 B
Ingenieria Continental S.A.	507 B
International Combustion Products Ltd.	744 G
International Nickel Ltd.	83 R
Isopad Ltd.	244 Y
J	
J. & S. Pumps Ltd.	101 R
Jabsco Pump Co. Ltd.	445 B

Petroleum Exhibition 1966 Exhibitors

Exhibitor	Stand No.
Jader, S. & Z.	238 Y
Jahn, F. & Company	38 R
Jenkins, Robert Group	311 O
Jenkins, W. J. & Co. Ltd.	58 R
Jenkinson, W. G. Limited	734 Gn
Jerguson Tress Gauge and Valve Co. Ltd.	308 O
Jiskoot Autocontrol Ltd.	451 B
Johnson A. & Co. (London) Limited	212 Y
Johnson, S. H. & Co. Ltd.	97 R
Johns-Manville Aerospace Ltd.	327 O
Johns-Manville (Great Britain) Limited	327 O
Jones Tate & Co. Ltd.	43 R
K	
K.D.G. Instruments Limited	509 B
Karlsruher Glastechnisches Werk	639 Gy
Keramchemie	18 R
Kestner Evaporator & Engineering Co. Ltd.	95 R
Kestners (Australia) Pty. Ltd.	95 R
Kestners (South Africa) Pty. Ltd.	95 R
Kinder, G. W. & Company Ltd.	101 R
Klinger, Richard Ltd.	26 R
KnitMesh Ltd.	491 B
KnitMesh-Todd N.V.	491 B
Konig & Günther G.m.b.H.	476 B
Krauss-Maffei-Imperial G.m.b.H.	98 R
L	
LaBrecque Engineering Company Ltd.	441 B
Lake & Elliot Founders & Engineers Ltd.	25 R
Laminated Plastic Products Ltd.	229 Y
Lancaster & Tonge Ltd.	419 B
Langley Alloys Ltd.	309 O
Lapp Process Equipment Division	23 R
Lead Fabricators Ltd.	42 R
Leavesley Engineering Ltd.	473 B
Leeds Fireclay Co. Ltd., The	659 Gy
Leiman Brothers	305 O
Lewa Herbert Ott K. G.	238 Y
V/O Licensintorg	117 R
Lightnin ab.	77 R
Lightnin France SA.	77 R
Lightnin Mixers Ltd.	77 R
Lincoln Electric Company Ltd.	200 Y
Linde Aktiengesellschaft, Werksgruppe München	222 Y
Linde Refrigeration and Machinery Ltd.	222 Y
Lindsays Paddington Ironworks (1948) Ltd.	20 R
Linggood Bros. Ltd.	735 Gn
Liquefied Pressure Gases Ancillary Services Ltd.	79 R
Livesey, Henry Ltd.	43 R
Lloyd & Ross Ltd.	231 Y
Lloyds Industries (International) Ltd.	117 R
London Bridge Engineering Ltd.	432 B
Low, Archibald & Co. Ltd.	68 R
Lurgi Apparatebau Gesellschaft m.b.H.	469 B
Lurgi Gesellschaft für Chemie und Huttenwesen m.b.H.	469 B
Lurgi Gesellschaft für Chemotechnik m.b.H.	469 B
Lurgi Gesellschaft für Mineraloltechnik m.b.H.	469 B
Lurgi (U.K.) Ltd.	469 B
Lurgi Gesellschaft für Wärmetechnik m.b.H.	469 B
Luwa (UK) Ltd.	59 R
Lyssey, Dr. G.	639 Gy
M	
M. & M. Mechanical Emptiers Ltd.	735 Gn
V/O Machinoexport	117 R
McKenna Constructions Ltd.	105 R
McKenna Group, The	105 R
Marchant, G. M. Ltd.	67 R
Marshall Sons and Company Ltd.	11 R
Mascarini, Giovanni Soc. Ing.	304 O
V/O Mashpriborintorg	117 R
Mason & Morton Ltd.	304 O
Mauri Brothers & Thomson Ltd.	102 R
Mechanical Cleansing Service Ltd.	735 Gn
Meller, George Ltd.	23 R
Meller, George Ltd.	602 Gy
Merrill Pumps Ltd. & Merrill Chemicals Ltd	8 R
Metal Formations Ltd.	450 B
Metal Processing	236 Y
Meter-Flow Ltd.	40 R
Metering Pumps Ltd.	208 Y
Midland Bank Ltd.	710 Gn
Midland Industries Ltd.	461 B
Mikropul Limited	301 O
Millipore Filter Corporation	465 B
Millipore Ltd.	465 B
Millipore S.A.	465 B
Millipore (U.K.) Ltd.	465 B
Milton Roy (Great Britain) Ltd.	61 R
Ministry of Technology	322 O
Mirrlees (Engineers) Ltd.	50 R
Mirrlees Watson Co. Ltd., The	50 R
Mission Manufacturing Co. Ltd.	23 R
Mitchell Craig Pumps Ltd.	61 R
Mitchell, L. A. Group of Companies	61 R
Mitchell, L. A. Ltd.	61 R
Mitchell, L. A. (Metal Propellers) Ltd.	61 R
Mitchell, L. A. (Pratchitt Brothers) Ltd.	61 R
Mobil Clearance Ltd.	735 Gn
Mono Pumps Limited	4 R
Moritz Chemical Engineering Co. Ltd.	316 O
Morton Bishopric Linings Ltd.	473 B
Morton, Robert & Co. Ltd.	473 B
Moseley, David & Sons Ltd.	204 Y

Exhibitor	Stand No.
N.V. Motorenfabriek Thomassen	24/28 R
Multiflex N.V.	22 R
Muntz, Alan & Co. Ltd.	462 B
N	
Nailsea Engineering Co. Ltd.	240 Y
National Engineering Laboratory	322 O
National Physical Laboratory	322 O
National Provincial Bank Limited	706 Gn
National Steel Foundry (1914) Ltd.	25 R
Nautamix G.m.b.H.	102 R
Nautamix N.V.	102 R
Nautamix (U.K.) Ltd.	102 R
Naylor (Petroseals) Ltd.	84 R
Nederlandsche Dok en Scheepsbouw Mij. v.o.f.	24/28 R
Nester Faust Manufacturing Corporation	658 Gy
Netherlands Oil and Gas Equipment Manufacturers NOEM	24/28 R
Netherlands Oil and Gas Equipment Manufacturers NOEM	51 R
Neville, J. C. Ltd.	728 Gn
Newton Chambers Engineering Ltd.	209 Y
Niagara Filters Europe	76 R
Niro Atomizer Ltd.	70 R
Nooter Corporation	101 R
Nordac Ltd. (Linings Division)	58 R
Nordac Ltd. (Process Division)	58 R
Norgren, C. A. Ltd.	233 Y
North American Aviation, Inc.	402 B
North American Aviation S.A. France	402 B
North American Aviation S.A. W. Germany	402 B
North American Aviation S.A. Switzerland	402 B
North American Aviation S.A.	402 B
Nuovo Pignone - Industrie Meccaniche e Fonderia S.p.A.	646 Gy
Nutshell Cap Co. Ltd., The	700 Gn
O	
O'Connor & Davies Ltd.	436 B
O.S.V.A. - Officine di Sesto S. G. & Valsecchi A.	105 R
"Oil & Gas Equipment"	411 B
"Oil & Gas International"	411 B
"Oil & Gas Journal"	411 B
Oil & Petrochemical Equipment News	110 R
Oil Well Engineering Co. Ltd., The	86 R
Orlita K.G.	476 B
Orthos (Engineering) Ltd.	333 O
Osborn Foundry & Engineering Co. Ltd.	647 Gy
Osborn Precision Casting	647 Gy
Osborn, Samuel & Co. Ltd.	647 Gy
Oxley Engineering Company Ltd.	98 R
P	
Palmer Publications	488 B
Parsons, C. A. & Company Ltd.	23 R
Pass, E. & Co. Ltd.	310 O
Paterson Engineering Co. Ltd.	216 Y
Paul, W. H. Ltd.	601 Gy
Pennsalt Ltd.	236 Y
Pergamon Press Ltd.	449 B
Permutit Company Ltd., The	403 B
Perrett Control Co. Ltd.	424 B
Petrocarbon Developments Ltd.	31 R
"Petroleo Interamericano"	411 B
"Petroleum"	418 B
Petroleum Publishing Company	411 B
Petroleum Times	420 B
Phillips Petroleum Products Ltd.	731 Gn
Phillips Petroleum - U.K. Ltd.	731 Gn
"Pipeline Catalog"	120 R
"Pipeline Industry"	120 R
Pipeweld Ltd.	78 R
Plastic Coating Equipment Ltd.	474 B
Plastic Coatings Ltd.	474 B
Plastic Dipping Co. Ltd., The	605 Gy
NV Plasticlining	24/28 R
Podbielniak Division of Dresser (Great Britain) Ltd.	328 O
Ets Pompes Guinard	23 R
Powell and Company	101 R
Powell Duffryn Chemical Engineering Ltd.	78 R
Powell Duffryn Engineering Co. Ltd	78 R
Powell Duffryn Engineering Co. Ltd., (Process Division)	78 R
Powell Duffryn Heating Ltd.	78 R
Powell Duffryn Shand	78 R
Powell Duffryn-Winslow Filters Ltd.	78 R
Power-Gas Corporation. Ltd., The	220 Y
Proctor & Schwartz Inc.	109 R
Proctor/Dalglish Pty., Ltd.	109 R
Process Biochemistry	627 Gy
Prodorite Ltd.	36 R
Purbridge Ltd.	735 Gn
Purle Bros. Ltd.	735 Gn
Q	
Q.V.F. Glass (Canada) Ltd.	219 Y
Q.V.F. Glastechnik G.m.b.H.	219 Y
Q.V.F. Italiana S.p.A.	219 Y
Q.V.F. Ltd., The Chemical Engineers in Glass	219 Y
Quickfit S.A.	219 Y
R	
Reed Roller Bit Company	317 O
Reed Roller Bit Company (Ned) N.V.	317 O
Resco Engineers Limited	101 R
Richards & Ross Ltd.	210 Y
Riggs, Wm. L. Company	455 B

Exhibitor	Stand No.
Ateliers Robatel & Mulatier	229 Y
Robinson, F. R. & Co. Ltd.	98 R
Rollo-Hardy & Co. Ltd.	642 Gy
Röntgen Technische Dienst N.V.	24/28 R
Rose, Downs & Thompson Ltd.	220 Y
Rosin Engineering Co. Ltd.	90 R
Rotork Engineering Co. Ltd.	472 B
De Rotterdamsche Droogdok Maatschappij N.V.	24/28 R
Rowlen & Co. Ltd.	305 O
Royal Schelde	24/28 R
Rubery Owen & Co. Ltd. (Bolt & Nut Division)	202 Y
Rubery Owen (Pumps) Ltd.	202 Y
Ryaland Pumps Ltd.	114 R
Ruston & Hornsby Ltd.	300 O
S	
S.A. De Recherches et Developpments Techniques	95 R
SSV Limited	108 R
Samesreuther Muller Schuss G.m.b.H.	304 O
Sandiacre Electrics Ltd.	641 Gy
Sandiacre Screw Company Ltd.	207 Y
Sandvik Steel Band Conveyors Ltd.	214 Y
Sandvik Swedish Steels Ltd.	214 Y
Sangamo Controls	608 Gy
Saunders Valve Co. Ltd.	215 Y
Saunders Valve Co. Ltd., Wolverhampton	215 Y
Saunders Valve Co. Ltd., Hereford	215 Y
Schenk Filters (G.B.) Ltd.	92 R
Schmidt'sche Heissdampf Gesellschaft m.b.H.	439 B
Scottish Council (Development & Industry)	407 B
Sealed Motor Construction Co. Ltd.	427 B
Seitz-Werke G.m.b.H.	476 B
Senior Economisers Ltd.	601 Gy
Senior Platefoil Ltd.	601 Gy
Serck Controls Ltd.	82 R
Serck Group, The	82 R
Serck Radiators Ltd.	82 R
Serck Tubes Ltd.	82 R
Sharples Company, The	236 Y
Shaw-Hathernware Group	319 O
Shaw's Glazed Brick Co.	319 O
Shipston Engineering Co. Ltd.	233 Y
Shot Blasting & Metal Spraying Co. Ltd.	20 R
Siemens (United Kingdom) Ltd.	73 R
Sigmund Pulsometer Pumps Ltd.	211 Y
Silica Gel Ltd., Equipment Division (W.R. Grace Ltd.)	478 B
Silver, Peter & Sons (Engineers) Ltd.	41 R
Silverson Machines Ltd.	241 Y
Silwood Hire Co. Ltd.	20 R
Simmons & Hawker Ltd.	331 O
Simon-Carves Ltd.	85 R
Simon Engineering Ltd.	85 R
Slingsby, H. C. Ltd.	643 Gy
Sludge Disposal Ltd.	735 Gn
Sludge Disposal (Western) Ltd.	735 Gn
Smith, Leonard (Engineers) Ltd.	218 Y
Smiths Industries Ltd., Ceramics Division	482 B
Smit Nijmegen Group	24/28 R
Smit-Slikkerveer	24/28 R
Southern Analytical Ltd.	413 B
Sparkler Filters (Great Britain) Ltd.	61 R
Spartan Steel & Alloys Ltd.	55 R
Speedwell Research Ltd.	229 Y
Speirs & Holloway Ltd.	408 B
Spiess-Tschudin, P. AG	459 B
Spembly Technical Products Ltd.	639 B
Spensall Engineering Co. Ltd.	325 O
Spensall (Machining) Ltd.	325 O
Spiral Tube & Components Co. Ltd., The	600 Gy
Spiro-Gills Ltd.	228 Y
Steele & Cowlishaw Ltd.	201 Y
Steel Group Ltd.	68 R
Steel, Peech & Tozer	217 Y
Steels Process Plants Ltd.	68 R
Stella-Meta Filters Ltd.	216 Y
Stewarts & Lloyds Ltd.	227 Y
Stewarts & Lloyds Plastics Ltd.	227 Y
Stockdale Engineering Ltd.	76 R
Stokes, F. J. Company, The	236 Y
Stone & Webster Canada Ltd.	64 R
Stone & Webster Engineering Corporation	64 R
Stone & Webster Engineering (Holland) N.V.	64 R
Stone & Webster Engineering Ltd.	64 R
Stone & Webster Engineering (Pty) Ltd.	64 R
Stone & Webster Engineering S.A.	64 R
Stone, J. & Co. (Deptford) Ltd.	10 R
VMF/Stork-Werkspoor	24/28 R
Stothert & Pitt Ltd.	312 O
Stotz-Kontakt G.m.b.H.	80 R
Strico G.m.b.H.	29 R
Strikfeldt, W. & Co. G.m.b.H.	29 R
Sugar Publications	488 B
Sulfrian Cryogenics Inc.	639 Gy
Sulzer Brothers Ltd.	303 O
Sundstrand-Denver	101 R
Sundstrand Sanders Ltd.	233 Y
Swenson Evaporator Co.	332 O
T	
"Tanker & Bulk Carrier"	418 B
"Tanker & Bulk Carrier World Directory"	418 B
Tarmac Civil Engineering Ltd., Mechanical Division	115 R
Taylor Bros. & Co. Ltd.	60 R
Taylor, C. F. (Industrial) Ltd.	81 R
Taylor Rustless Fittings Co. Ltd.	37 R
Technical Indexes Ltd.	499 B
Technoexport (Czechoslovakia)	118 R
Tecnitub Italiana S.P.A.	238 Y
Teddington Bellows Ltd.	75 R
Tenute Meccaniche "Crane" S.p.A.	406 B

(continued overleaf)

Around the Stands. . . .

The theme of the **Air Products Ltd.,** Stand No. 88, Red Hall, will be illustration rather than demonstration. For obvious reasons, it is not possible to provide visitors to the stand with a demonstration of a tonnage oxygen plant, nor for that matter would their new 42 ft. insulated road tanker fit easily into the Olympia shell scheme. The company has, therefore, decided to rely on pictorial presentation, both in artistic and photographic form, to show the range, design and availability of its products. Visitors will be able to discuss any facet of the company's capability, in greater detail, with representatives on the stand.

Apex Construction Ltd., Stand No. 19, Red Hall, will be exhibiting examples of their wide range of equipment for the chemical, powder, metallurgy, pharmaceutical, food, plastics, and ceramic industries. These include the Model 255/286C Y-Cone Powder Blender, 'P' type Liquid Mixer Unit, and Model 165 Y-Cone Powder Blenders, etc.

An 8 ft. long bronze casting, part of a 22-stage centrifugal pump, will form the spectacular centrepiece of the **David Brown Gear Industries Ltd.,** Stand No. 213, Yellow Hall. The casting was made at the Foundries, Fabrication and Pumps Division of the company. The one-ton exhibition piece forms an inner casing in phosphor-bronze, together with a rotating element, of a special 'tailor-made' David Brown-Bingham vertical pump unit manufactured for a large international company. This pump contains the greatest number of stages ever made by David Brown's and has been designed to work at extremely low temperatures.

Other David Brown-Bingham pumps to be displayed will include a horizontal multiple-stage unit for oil refinery application and a single stage horizontal pump in sectional form to show the details of the volute construction, impeller design, bearings and stuffing-box. Among a representative selection of horizontal and vertical single- and multi-stage pumps will be a vertical single-stage unit designed for handling low temperature liquids down to –250°F. in petro-chemical processing.

Cape Insulation & Asbestos Products Ltd., manufacturers of Caposite Plus amosite fibre pipe coverings, Caposite and Caposil 1,400 block lagging for the thermal insulation of refinery plant, boilers, tanks, vessels and chemical plant will display examples of these materials applied, where possible, under operational conditions. They will be on Stand No. 645, Grey Hall, First Floor.

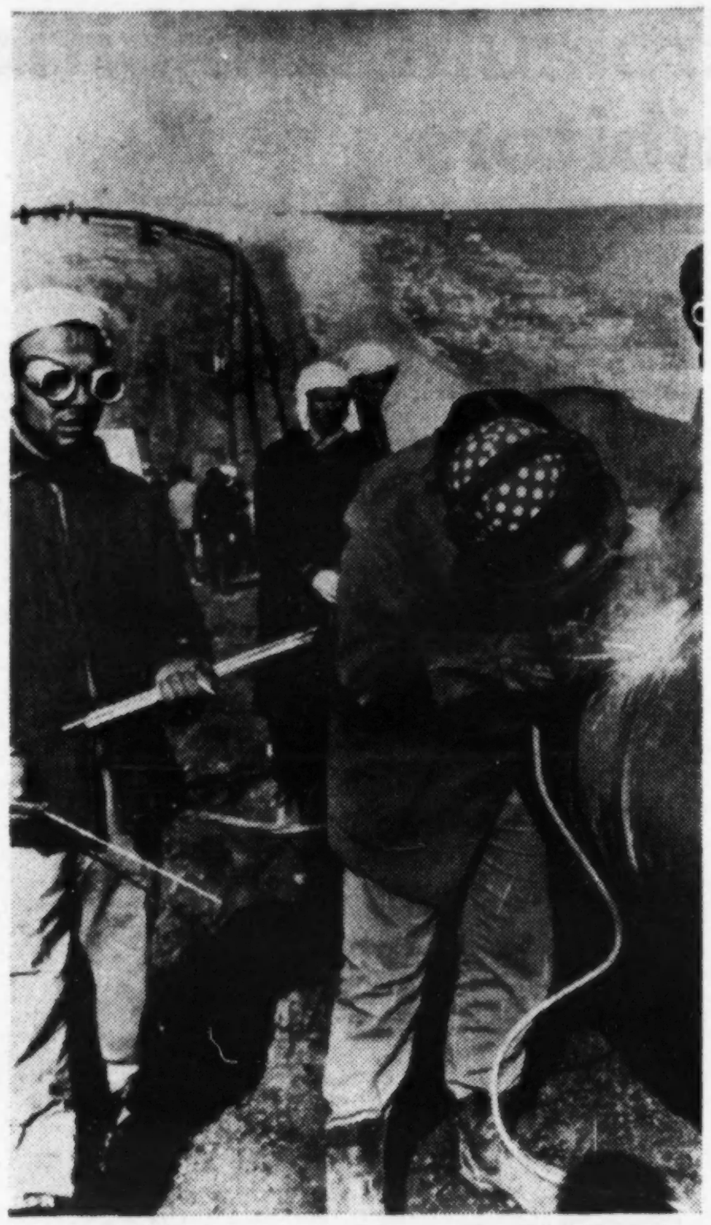
Crane Packing Limited is exhibiting on Stand No. 406 in the Blue Hall. The display is designed to show how Crane mechanical shaft seals and gland packings are used to seal against leakage around the rotating shafts of pumps – and the emphasis of the display is upon the critical service conditions experienced in oil refineries and chemical works. Subsidiary displays will feature Polytetrafluoroethylene (PTFE) in raw material and component forms, and jointing compounds and materials possessing properties and characteristics which enable them to function in critical conditions of service.

The Colchester firm of **Davey, Paxman & Co. Ltd.,** Stand No. 300, Orange Hall, will stress how well equipped they are to provide an economical and reliable means for the separation of solids from liquid. In order to enhance still further the flexibility and servicing of their filters a range based on two basic drum diameters has now been introduced; at the same time this standardization has made them even more competitive in price. The Paxman standard filter range covers areas from 20 to 400 sq. ft. and provides for the quick interchange of discharge gear and accessories to suit any required change of process. As a basis for discussion the firm has selected one filter from its standard range and is supporting this with a comprehensive pictorial display. It is also showing for the first time its new all-colour film which depicts various applications of the wide range of Paxman filters.

Eimco (Great Britain) Limited, Stand No. 326, Orange Hall, will feature two working pilot models of the company's latest filtration equipment. These are the Extractor filter, which is particularly suitable for dewatering fast settling solids and intensive washing, and the new Edgetrack version of the well-established Eimcobelt rotary vacuum filter.

The Edgetrack system greatly simplifies filter belt alignment and tracking, giving improved reliability and simpler maintenance. Bead sections extruded in suitable elastomer to suit process conditions are attached to the edges of the belt, and spring loaded pulleys running above and below the bead tension the belt across the face of the filter to a pre-set degree, ensuring correct alignment. Safety devices incorporated in the pulley mountings automatically release belt tension, shut down the filter drive and operate a warning system in the event of any fault developing.

Large tilting pan filters designed for phosphoric acid separation are included in the Eimco range, with standard models covering sizes from 90 to 2,000 sq. ft. These feature increased pan depth, vacuum brake devices and modified roller bearing assemblies for ease of servicing and are available in a range of patterns and materials for specific installations. Pan filters find particular applications in phosphate fertilizer plants, ore dewatering and in handling top fed fast settling solids.

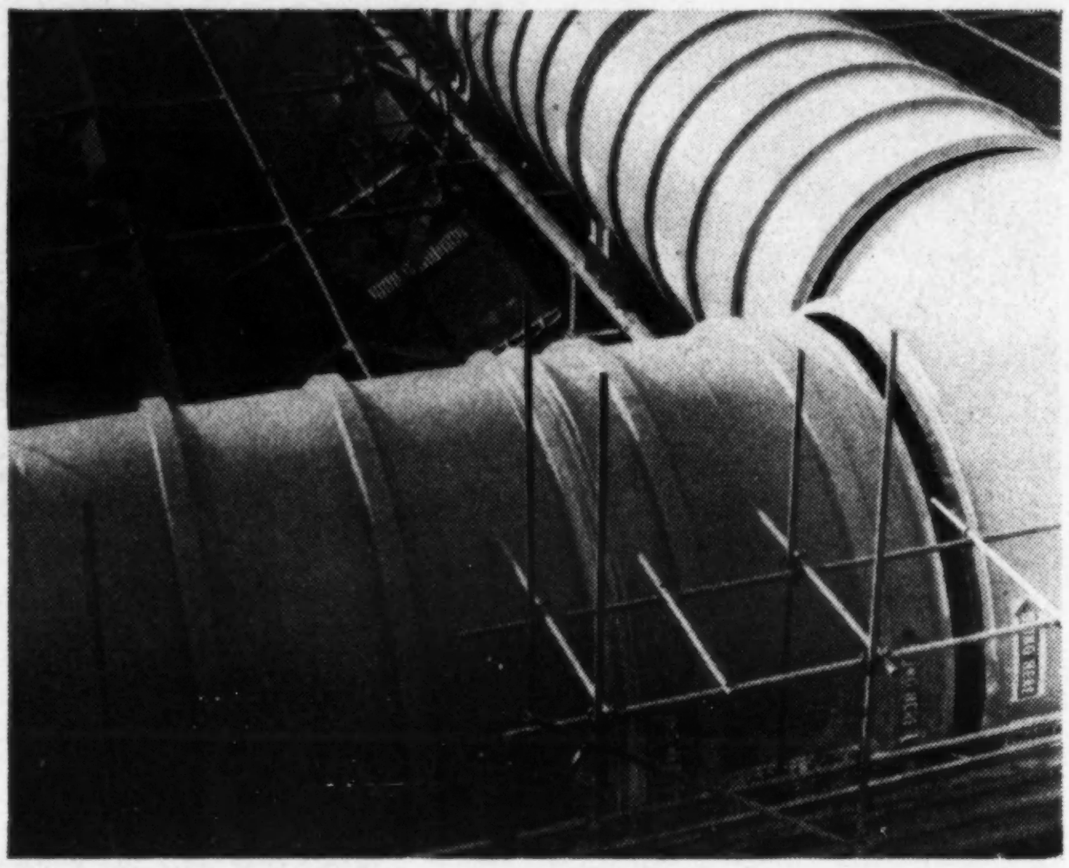


Lincoln Electric Co. Ltd's. Arcmaker SAE 300 mobile welders and Arcmaker in use on the Algerian 500 mile 28-in diameter crude oil pipeline which runs from the oil fields at Haoud el Hamra to the coast at Arzew.

(Continued on page viii)

LIST OF EXHIBITORS—*continued*

Exhibitor	*Stand No.*
Terminus Publications Ltd.	418 B
Terry Steam Turbine Company	101 R
Thames Packaging Equipment Company, The	6 R
Thermo Plastics Ltd.	650 Gy
Thies B., (Spezialmaschinenfabrik)	89 R
Thomas, Bertram (Engineers) Ltd.	421 B
Thornton, B. Ltd.	640 Gy
Tirfor Ltd.	471 B
Torrance & Sons Ltd.	312 O
Torsion Balance Co. (Great Britain) Ltd.	467 B
Tothill Press Ltd.	119 R
Tough Plastics Ltd.	18 R
Tovey Transport Ltd.	735 Gn
Trans-Mediterranean Airways S.A.L.	705 Gn
Tranter Manufacturing Inc.	601 Gy
Trent Components Ltd.	35 R
Trent Valve Company Ltd., The	35 R
Tress Engineering Co. Ltd.	308 O
Triangle Valve Co. Ltd.	43 R
Turner Manufacturing Co. Ltd.	475 B
Tube Investments Ltd.	210 Y
Tube Products Ltd.	210 Y
Tubela Engineering Co. Ltd.	39 R
Tubeman (H.R.T.) Ltd.	54 R
Tuflin Ltd.	238 Y
Tygadure Ltd.	486 B
U	
U.S. Rubber Overseas S.A.	245 Y
Uddeholm Ltd.	456 B
Uhde, Friedrich G.m.b.H.	32/33 R
United Steel Companies Ltd., The	217 Y
V	
Veronesi, Costruzioni Elettromeccaniche	304 O
Vickers Ltd., Vickers Instruments	60 R
Vickers-Zimmer Ltd.	21 R
W	
Walker, James & Co. Ltd.	9 R
Waller Engineering Co. Ltd.	79 R
Wallwork Gears, Le Grand Oilfield Equipment Division	34 R
Ward, Thos W. Ltd.	221 Y
Warne, William & Co. Ltd.,	243 Y
Warren Spring Laboratory	322 O
Waste Disposal Ltd., Dublin	735 Gn
Waste Disposal Ltd., Belfast	735 Gn
Waters, A. J. G. Ltd.	238 Y
Watson Industrial Plastics Ltd.	450 B
Welding Engineers Ltd.	634 Gy
Welding Technical Services Ltd.	321 O
Wellman Alloys Ltd.	332 O
Wellman Controls Ltd.	332 O
Wellman Incandescent Furnace Co. Ltd., Chemical Engineering Division	332 O
Wellman Selas Ltd.	332 O
Werkspoor - Amsterdam N.V.	24/28 R
Werkspoor - Utrecht N.V.	24/28 R
Wescon (Werkspoor Servic s and Construction) N.V.	24/28 R
Westfalia Separator A. G.	12 R
Westfalia Separator (Great Britain) Ltd.	12 R
Westinghouse Electric International Co.	639 Gy
Weyburn Engineering Co. Ltd.	443 B
Whessoe Engineering Ltd.	29 R
Whessoe (Ireland) Ltd.	29 R
Whessoe Ltd.	29 R
Whessoe Ltd., Co. Durham	29 R
Whessoe Ltd., Plastics Division	29 R
Whessoe S.A.	29 R
Wicksteed, Charles & Co. Ltd.	466 B
Widnes Foundry & Engineering Co. Ltd.	221 Y
Wiegand Apparatebau G.m.b.H.	38 R
Winkworth Machinery Ltd.	225 Y
Wilmot Breeden (Truflo) Ltd.	232 Y
Wilton-Fijenoord International	24/28 R
Winterburn, Joseph Ltd.	23 R
Wiseman, David F. & Sons Ltd.	461 B
Wood Bros. & Co. (Gaskets) Ltd.	224 Y
Woodall-Duckham Construction Co. Ltd.	58 R
Woodall-Duckham Group	58 R
Woodfield Rochester Ltd.	46 R
Woodston Engineers	473 B
Worcester Valve Company	481 B
"World Maritime & Oil Compendium"	418 B
"World Oil"	120 R
"World Petroleum"	488 B
Worthington-Simpson Ltd.	206 Y
Wright, Frank H. Ltd.	105 R
Z	
Zerolit Ltd.	403 B
Zimmer, Hans J. A. G.	21 R
Zwicky Ltd.	330 O



Part of the main duct, 13 ft. diameter and 1,400 ft. long, designed, manufactured and installed by Prodorite Limited at Courtaulds Limited, Preston factory to handle all the foul air from their entire spinning plant assembly and replaces the existing underfloor concrete ducting system. The structure was built from a low flammability grade of Prodorite's Orglas Reinforced Plastic laminate; metal reinforcement was kept to a minimum, being generally confined to the two angle rings at either end of the duct section. The duct was internally lined with Celmar (Polypropylene sheets) integrally bonded to the Orglas.

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